

Sequence Alignments

<!--StartFragment-->RESULT 1

A49184

fatty acid-binding protein - chicken

N;Alternate names: lipid-binding protein

C;Species: Gallus gallus (chicken)

C;Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004

C;Accession: A49184; S26599

R;Godbout, R.

Exp. Eye Res. 56, 95-106, 1993

A;Title: Identification and characterization of transcripts present at elevated levels

A;Reference number: A49184; MUID:93162137; PMID:7916696

A;Accession: A49184

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-132 <GOD>

A;Cross-references: UNIPROT:Q05423; UNIPARC:UPI00001712D5; EMBL:X65459; NID:g63230; PI

A;Experimental source: retina

A;Note: sequence extracted from NCBI backbone (NCBIP:124757)

C;Superfamily: myelin P2 protein

Query Match 93.0%; Score 636; DB 2; Length 132;

Best Local Similarity 91.7%; Pred. No. 3.7e-52;

Matches 121; Conservative 5; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MVEAFCATWKL TNSQNFDEYMKALGVGFATRQVGNVTKPTVIISQEGDKVVIRT LSTFKN 60

||||| : ||||| ||||| ||||| ||||| ||||| |||||

Db 1 MVEAFCATWKLADSHNFDEYMKALGVGFAMRQVGNVTKPTVIISSEGDKVVIRTQSTFKN 60

Qy 61 TEISFQLGEEFDETTADDRNCKSVVSLDGDKL VHIQKWDGKETN FVREIKDGMVMTLTF 120

||||| : ||||| ||||| : ||||| : ||||| : |||||

Db 61 TEISFKLGEEFDETT PDDR NCKSVVTL DGDKL VHVQKWDGKETN FVREIKDGRMVMTLTF 120

Qy 121 GDVVAVRHYEKA 132

|||||

Db 121 GDVVAVRHYEKA 132

<!--EndFragment-->

<!--StartFragment-->RESULT 3

FABPR_CHICK

ID FABPR_CHICK STANDARD; PRT; 131 AA.

AC Q05423;

DT 01-FEB-1994, integrated into UniProtKB/Swiss-Prot.

DT 01-FEB-1994, sequence version 1.

DT 07-FEB-2006, entry version 37.

DE Fatty acid-binding protein, retina (R-FABP).

OS Gallus gallus (Chicken).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;

OC Gallus.

OX NCBI_TaxID=9031;

RN [1]

RP NUCLEOTIDE SEQUENCE [MRNA].

RC TISSUE=Embryonic retina;

RX MEDLINE=93162137; PubMed=7916696; DOI=10.1006/exer.1993.1014;

RA Godbout R.;

RT "Identification and characterization of transcripts present at

RT elevated levels in the undifferentiated chick retina.";

RL Exp. Eye Res. 56:95-106(1993).

CC -!- FUNCTION: FABP are thought to play a role in the intracellular

CC transport of long-chain fatty acids and their acyl-CoA esters.

CC -!- SUBCELLULAR LOCATION: Cytoplasm.

CC -!- DEVELOPMENTAL STAGE: Highest expression in early stages of retinal

CC development with a 50-100 fold decrease from day 3 to day 19 of

CC retina maturation.

CC -!- SIMILARITY: Belongs to the fatty-acid binding protein (FABP)

CC family.

CC

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CC

DR EMBL; X65459; CAA46451.1; -; mRNA.

DR PIR; A49184; A49184.

DR HSSP; O15540; 1FDQ.

DR SMR; Q05423; 1-131.

DR Ensembl; ENSGALG00000014866; Gallus gallus.

DR InterPro; IPR012674; Calycin.

DR InterPro; IPR000463; Fatty_acid_bd.

DR InterPro; IPR000566; Lipocln_cytFABP.

DR Pfam; PF00061; Lipocalin; 1.

DR PRINTS; PR00178; FATTYACIDBP.

DR PROSITE; PS00214; FABP; 1.

KW Acetylation; Lipid-binding; Transport.

FT INIT_MET 0 0 By similarity.

FT CHAIN 1 131 Fatty acid-binding protein, retina.

FT /FTId=PRO_0000067371.

FT MOD_RES 1 1 N-acetylvaline (By similarity).

SQ SEQUENCE 131 AA; 14796 MW; FEDB7125E5024EA8 CRC64;

Query Match 92.3%; Score 631; DB 1; Length 131;

Best Local Similarity 91.6%; Pred. No. 1.9e-48;

Matches 120; Conservative 5; Mismatches 6; Indels 0; Gaps 0;

Qy 2 VEAFCATWKLNSQNFDEYMKALGVGFATRQVGNVTKPTVIISQEGDKVVIRTLSFKNT 61

||||||| :| ||||||||| ||||||||| ||||||||| |||||||

Db 1 VEAFCATWKLADSHNFDEYMKALGVGFAMRQVGNVTKPTVIISSEGDKVVIRTQSTFKNT 60

Qy 62 EISFQLGEEFDETTADDRNCKSVVSLDGDGLVHIQKWDGKETNFVREIKDGKMVMTLTFG 121

|||:||||||| |||||||:|||||||:||||||| |||||||

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Db          61 EISFKLGEEFDETTTPDDRNCKSVVTLDGDKLVHVQKWDGKETNFVREIKDGRMVMTLTFG 120
Qy          122 DVVAVRHYEKA 132
           |||||
Db          121 DVVAVRHYEKA 131
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